PATENT Attorney Docket No. 101.0089-02000 Customer No. 22882 Express Mail Label No. ET692326400US

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| In re Application of:                  | )                      |
|--|------------------------|
| Gary K. Michelson, M.D.                | )                      |
| Serial No.: (Cont. 09/941,425)         | ) Group Art Unit: 3732 |
| Filed: December 15, 2003               | ) Examiner: E. Robert  |
| For: BONE HEMI-LUMBAR INTERBODY SPINAL | )                      |
| FUSION IMPLANT HAVING AN               | )                      |
| ASYMMETRICAL LEADING END AND           | )                      |
| METHOD OF INSTALLATION THEREOF         | )                      |
|  |                        |

MS PATENT APPLICATION Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicant brings to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed concurrently with the above-referenced application.

Copies of the listed documents were previously submitted in a prior application Serial No. 09/941,425, filed August 28, 2001; and/or Serial No. 09/553,000, filed April 19, 2000, now U.S. Patent No. 6,350,283; upon which applicant relies for the benefits provided in 35 U.S.C. § 120.

Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

Applicant brings to the Examiner's attention the following U.S. co-pending application of Applicant; the claims and drawings of which are attached hereto:

| NOT FOR PUBLICATION |                    |             |                        |  |  |  |  |  |  |  |
|---------------------|--------------------|-------------|------------------------|--|--|--|--|--|--|--|
| Examiner Initial    | Application Number | Filing Date | Publication/Patent No. |  |  |  |  |  |  |  |
|                     | 09/553,573         | 19APR00     | N/A                    |  |  |  |  |  |  |  |

Applicant respectfully requests that the Examiner consider the document listed above, indicate that it was considered by making appropriate notations in the appropriate column, and return a copy of this sheet to the Applicant.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and applicant determines that the cited documents do not constitute "prior art" under United States law, applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 50-1066.

Respectfully submitted,

MARTIN & FERRARO, LLP

Date: December 15, 2003

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OMB 0651-0031

| Substitut f r FORM PTO-1449                       | Attorney Docket Number<br>101.0089-02000 | Custome<br>22882                            |                         |  |
|---|--|---|-------------------------|--|
| INFORMATION DISCLOSURE CITATION IN AN APPLICATION | Applicant Gary K. Michelson, M.D.        | Application Number<br>(Cont. of 09/941,425) |                         |  |
| (Use several sheets if necessary) Sheet 1 of 4    | Sary) Filing Date December 15, 2003      |   | Examin r<br>(E. Robert) |  |

## **U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL |   | DC | CUM | ENT N | NUMB | ER |   | DATE     | NAME                 | CLASS | SUBCLASS | FILING DATE IF<br>APPROPRIATE |
|---------------------|---|----|-----|-------|------|----|---|----------|----------------------|-------|----------|-------------------------------|
|                     | 2 | 6  | 7   | 7     | 3    | 6  | 9 | 05/1954  | Knowles              |       |          |                               |
|                     | 3 | 4  | 2   | 6     | 3    | 6  | 4 | 02/1969  | Lumb                 |       |          |                               |
|                     | 3 | 8  | 4   | 8     | 6    | 0  | 1 | 11/19/74 | Ma et al.            |       |          |                               |
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|                     | 3 | 9  | 0   | 5     | 0    | 4  | 7 | 09/1975  | Long                 |       |          |                               |
|                     | D | 2  | 4   | 5     | 2    | 5  | 9 | 08/1977  | Shen                 |       |          |                               |
|                     | 4 | 0  | 7   | 0     | 5    | 1  | 4 | 01/1978  | Eatherly             |       |          |                               |
|                     | 4 | 3  | 0   | 9     | 7    | 7  | 7 | 01/1982  | Patil                |       |          |                               |
|                     | 4 | 3  | 4   | 9     | 9    | 2  | 1 | 09/1982  | Kuntz                |       |          |                               |
|                     | 4 | 5  | 0   | 1     | 2    | 6  | 9 | 02/1985  | Bagby                |       |          |                               |
|                     | R | Е  | 3   | 1     | 8    | 6  | 5 | 04/1985  | Roux                 |       |          |                               |
|                     | 4 | 5  | 9   | 9     | 0    | 8  | 6 | 07/1986` | Doty                 |       |          |                               |
|                     | 4 | 6  | 3   | 6     | 2    | 1  | 7 | 01/1987  | Ogilvie et al.       |       |          |                               |
|                     | 4 | 7  | 1   | 4     | 4    | 6  | 9 | 12/1987  | Kenna                |       |          |                               |
|                     | 4 | 7  | 4   | 3     | 2    | 5  | 6 | 05/1988  | Brantigan            |       |          |                               |
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|                     | 4 | 8  | 2   | 0     | 3    | 0  | 5 | 04/1989  | Harms et al.         |       |          |                               |
|                     | 4 | 8  | 3   | 4     | 7    | 5  | 7 | 05/1989  | Brantigan            |       |          |                               |
|                     | 4 | 8  | 6   | 3     | 4    | 7  | 6 | 09/1989  | Shepperd             |       |          |                               |
|                     | 4 | 8  | 6   | 3     | 4    | 7  | 7 | 09/1989  | Monson               |       |          |                               |
|                     | 4 | 8  | 7   | 7     | 0    | 2  | 0 | 10/1989  | Vich                 |       |          |                               |
|                     | 4 | 8  | 7   | 8     | 9    | 1  | 5 | 11/1989  | Brantigan            |       |          |                               |
|                     | 4 | 9  | 0   | 4     | 2    | 6  | 1 | 02/1990  | Dove et al.          |       |          |                               |
|                     | 4 | 9  | 1   | 1     | 7    | 1  | 8 | 03/1990  | Lee et al.           |       |          |                               |
|                     | 4 | 9  | 3   | 6     | 8    | 4  | 8 | 06/1990  | Bagby                |       |          |                               |

| A   |   | 4 | 9            | 5            | 5 | 9           | 0            | 8 | 09/1990     | Frey et al.     | <br>         |  |
|---|---|---|--------------|--------------|---|-------------|--------------|---|-------------|-----------------|--------------|--|
| S   |   |   |              |              |   |             |              |   |             |                 |              |  |
| 5         0         1         5         2         5         5         05/1991         Kuslich           5         0         2         6         3         7         3         06/1991         Ray           5         0         4         7         0         5         5         09/1991         Ray           5         0         5         5         1         0         4         10/1991         Ray           5         0         5         5         1         0         4         10/1991         Kuslich           5         0         6         2         8         4         5         11/1991         Kuslich           5         0         7         1         4         3         7         12/1991         Kuslich           5         1         2         2         1         3         0         06/1992         Pisharodi           5         1         7         1         2         7         8         12/1992         Pisharodi           5         1         7         1         2         7         8         19/1993         Graham           5  |   |   |              |              |   |             |              |   |             | -               |              |  |
| 5         0         2         6         3         7         3         06/1991         Ray et al.           5         0         4         7         0         5         5         09/1991         Bao           5         0         5         5         1         0         4         10/1991         Ray           5         0         5         5         1         0         4         10/1991         Ruslich           5         0         5         9         1         9         3         10/1991         Ruslich           5         0         6         2         8         4         5         11/1991         Steffee           5         1         2         2         1         3         0         06/1992         Pisharodi           5         1         2         3         9         2         6         06/1992         Pisharodi           5         1         7         1         2         7         8         12/1992         Pisharodi           5         1         9         2         3         2         7         03/1993         Brantigan  |   |   |              |              |   |             |              |   |             |                 | <br>         |  |
| 5         0         4         7         0         5         5         09/1991         Bao           5         0         5         5         1         0         4         10/1991         Ray           5         0         5         9         1         9         3         10/1991         Kuslich           5         0         6         2         8         4         5         11/1991         Kuslich           5         0         7         1         4         3         7         12/1991         Kuslich et al.           5         0         7         1         4         3         7         12/1991         Kuslich et al.           5         1         2         2         1         3         0         06/1992         Pisharodi           5         1         7         1         2         7         8         12/1992         Pisharodi           5         1         7         1         2         7         8         12/1992         Pisharodi           5         1         9         2         3         09/1993         Graham           5         2  |   |   |              |              |   |             |              |   |             |                 | <del> </del> |  |
| 5         0         5         5         1         0         4         10/1991         Ray           5         0         5         9         1         9         3         10/1991         Kuslich           5         0         6         2         8         4         5         11/1991         Kuslich et al.           5         0         7         1         4         3         7         12/1991         Steffee           5         1         2         2         1         3         0         06/1992         Pisharodi           5         1         7         1         2         7         8         12/1992         Pisharodi           5         1         7         1         2         7         8         12/1992         Pisharodi           5         1         7         1         2         7         8         12/1992         Pisharodi           5         1         9         2         3         2         7         03/1993         Graham           5         2         5         8         0         3         1         11/1993         Salib et al.  |   |   |              |              |   |             |              |   |             |                 |              |  |
| 5         0         5         9         1         9         3         10/1991         Kuslich           5         0         6         2         8         4         5         11/1991         Kuslich et al.           5         0         7         1         4         3         7         12/1991         Steffee           5         1         2         2         1         3         0         06/1992         Keller           5         1         2         2         3         9         2         6         06/1992         Pisharodi           5         1         7         1         2         7         8         12/1992         Pisharodi           5         1         9         2         3         2         7         03/1993         Brantigan           5         2         4         6         4         5         8         09/1993         Graham           5         2         5         8         0         3         1         11/1993         Salib et al.           5         3         7         0         6         9         7         12/1994         Baumgartner<  |   |   |              |              |   |             |              |   |             |                 |              |  |
| 5         0         6         2         8         4         5         11/1991         Kuslich et al.           5         0         7         1         4         3         7         12/1991         Steffee           5         1         2         2         1         3         0         06/1992         Keller           5         1         2         2         1         3         0         06/1992         Pisharodi           5         1         7         1         2         7         8         12/1992         Pisharodi           5         1         9         2         3         2         7         03/1993         Brantigan           5         2         4         6         4         5         8         09/1993         Graham           5         2         5         8         0         3         1         11/1993         Salib et al.           5         3         7         0         6         9         7         12/1994         Wagner et al.           5         3         7         7         2         06/1995         Brantigan           5 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><br/></td><td></td></t<>                                      |   |   |              |              |   |             |              |   |             |                 | <br>         |  |
| 5         0         7         1         4         3         7         12/1991         Steffee           5         1         2         2         1         3         0         06/1992         Keller           5         1         2         2         1         3         0         06/1992         Pisharodi           5         1         7         1         2         7         8         12/1992         Pisharodi           5         1         9         2         3         2         7         03/1993         Brantigan           5         2         4         6         4         5         8         09/1993         Graham           5         2         5         8         0         3         1         11/1/1993         Salib et al.           5         3         0         6         3         0         9         04/1994         Wagner et al.           5         3         7         0         6         9         7         12/1994         Baumgarther           5         3         9         7         3         6         4         03/1995         Kozak et al. <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td>:</td> <td></td> <td></td>                                   |   |   |              |              |   | _           |              |   |             | :               |              |  |
| 5         1         2         2         1         3         0         06/1992         Keller           5         1         2         3         9         2         6         06/1992         Pisharodi           5         1         7         1         2         7         8         12/1992         Pisharodi           5         1         9         2         3         2         7         03/1993         Brantigan           5         1         9         2         3         2         7         03/1993         Graham           5         2         4         6         4         5         8         09/1993         Graham           5         3         0         6         3         0         9         04/1994         Wagner et al.           5         3         7         0         6         9         7         12/1994         Baumgartner           5         3         9         7         3         6         4         03/1995         Kozak et al.           5         4         4         3         5         1         4         08/1995         Steffee <t< td=""><td></td><td></td><td></td><td></td><td>2</td><td><del></del></td><td></td><td></td><td></td><td></td><td><br/></td><td></td></t<>                        |   |   |              |              | 2 | <del></del> |              |   |             |                 | <br>         |  |
| 5         1         2         3         9         2         6         06/1992         Pisharodi           5         1         7         1         2         7         8         12/1992         Pisharodi           5         1         9         2         3         2         7         03/1993         Brantigan           5         2         4         6         4         5         8         09/1993         Graham           5         2         5         8         0         3         1         11/1993         Salib et al.           5         3         0         6         3         0         9         04/1994         Wagner et al.           5         3         7         0         6         9         7         12/1994         Baumgartner           5         3         9         7         3         6         4         03/1995         Kozak et al.           5         4         2         5         7         7         2         06/1995         Brantigan           5         4         4         3         5         1         4         03/1995         Keszek et al.  |   | 5 | 0            | 7            |   | 4           | 3            | 7 |             | Steffee         |              |  |
| 5         1         7         1         2         7         8         12/1992         Pisharodi           5         1         9         2         3         2         7         03/1993         Brantigan           5         2         4         6         4         5         8         09/1993         Graham           5         2         5         8         0         3         1         11/1993         Salib et al.           5         3         0         6         3         0         9         04/1994         Wagner et al.           5         3         7         0         6         9         7         12/1994         Baumgartner           5         3         9         7         3         6         4         03/1995         Kozak et al.           5         4         2         5         7         7         2         06/1995         Brantigan           5         4         4         3         5         1         4         03/1995         Kozak et al.           5         4         4         3         5         1         4         08/1995         Kuslich et al. <td></td> <td>5</td> <td>1</td> <td>2</td> <td>2</td> <td>1</td> <td>3</td> <td>0</td> <td>06/1992</td> <td>Keller</td> <td><br/></td> <td></td> |   | 5 | 1            | 2            | 2 | 1           | 3            | 0 | 06/1992     | Keller          | <br>         |  |
| 5         1         9         2         3         2         7         03/1993         Brantigan           5         2         4         6         4         5         8         09/1993         Graham           5         2         5         8         0         3         1         11/1993         Salib et al.           5         3         0         6         3         0         9         04/1994         Wagner et al.           5         3         7         0         6         9         7         12/1994         Baumgartner           5         3         9         7         3         6         4         03/1995         Kozak et al.           5         4         2         5         7         7         2         06/1995         Brantigan           5         4         4         3         5         1         4         08/1995         Steffee           5         4         4         3         5         1         4         08/1995         Kuslich et al.           5         4         8         9         3         0         8         02/1996         Kuslich et al. <td></td> <td>5</td> <td>1</td> <td>2</td> <td>3</td> <td>9</td> <td>2</td> <td>6</td> <td>06/1992</td> <td>Pisharodi</td> <td></td> <td></td>   |   | 5 | 1            | 2            | 3 | 9           | 2            | 6 | 06/1992     | Pisharodi       |              |  |
| 5       2       4       6       4       5       8       09/1993       Graham         5       2       5       8       0       3       1       11/1993       Salib et al.         5       3       0       6       3       0       9       04/1994       Wagner et al.         5       3       7       0       6       9       7       12/1994       Baumgartner         5       3       9       7       3       6       4       03/1995       Kozak et al.         5       4       2       5       7       7       2       06/1995       Brantigan         5       4       4       3       5       1       4       08/1995       Steffee         5       4       4       3       5       1       4       08/1995       Kuslich et al.         5       4       8       9       3       0       7       02/1996       Kuslich et al.         5       4       8       9       3       0       8       02/1996       Betagnoli         5       5       7       1       1       0       9       11/1996  |   | 5 | 1            | 7            | 1 | 2           | 7            | 8 | 12/1992     | Pisharodi       |              |  |
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| 5       3       0       6       3       0       9       04/1994       Wagner et al.         5       3       7       0       6       9       7       12/1994       Baumgartner         5       3       9       7       3       6       4       03/1995       Kozak et al.         5       4       2       5       7       7       2       06/1995       Brantigan         5       4       4       3       5       1       4       08/1995       Steffee         5       4       4       3       5       1       4       08/1995       Kuslich et al.         5       4       8       9       3       0       7       02/1996       Kuslich et al.         5       4       8       9       3       0       8       02/1996       Kuslich et al.         5       5       7       1       1       0       9       11/1996       Bertagnoli         5       6       0       9       6       3       5       03/1997       Kohrs et al.         5       6       0       9       6       3       6       03/1997 <td></td> <td>5</td> <td>2</td> <td>4</td> <td>6</td> <td>4</td> <td>5</td> <td>8</td> <td>09/1993</td> <td>Graham</td> <td></td> <td></td>   |   | 5 | 2            | 4            | 6 | 4           | 5            | 8 | 09/1993     | Graham          |              |  |
| 5         3         7         0         6         9         7         12/1994         Baumgartner           5         3         9         7         3         6         4         03/1995         Kozak et al.           5         4         2         5         7         7         2         06/1995         Brantigan           5         4         4         3         5         1         4         08/1995         Steffee           5         4         4         3         5         1         4         08/1995         Kuslich et al.           5         4         8         9         3         0         7         02/1996         Kuslich et al.           5         4         8         9         3         0         8         02/1996         Kuslich et al.           5         5         7         1         1         0         9         11/1996         Bertagnoli           5         6         0         9         6         3         5         03/1997         Kohrs et al.           5         6         0         9         6         3         6         03/1997         Kohrs e   |   | 5 | 2            | 5            | 8 | 0           | 3            | 1 | 11/1993     | Salib et al.    |              |  |
| 5       3       9       7       3       6       4       03/1995       Kozak et al.         5       4       2       5       7       7       2       06/1995       Brantigan         5       4       4       3       5       1       4       08/1995       Steffee         5       4       5       8       6       3       8       10/1995       Kuslich et al.         5       4       8       9       3       0       7       02/1996       Kuslich et al.         5       4       8       9       3       0       8       02/1996       Kuslich et al.         5       4       8       9       3       0       8       02/1996       Kuslich et al.         5       5       7       1       1       0       9       11/1996       Bertagnoli         5       6       0       9       6       3       5       03/1997       Michelson         5       6       0       9       6       3       6       03/1997       Kohrs et al.         5       6       4       5       5       9       8       07/1997 <td></td> <td>5</td> <td>3</td> <td>0</td> <td>6</td> <td>3</td> <td>0</td> <td>9</td> <td>04/1994</td> <td>Wagner et al.</td> <td></td> <td></td>   |   | 5 | 3            | 0            | 6 | 3           | 0            | 9 | 04/1994     | Wagner et al.   |              |  |
| 5       4       2       5       7       7       2       06/1995       Brantigan         5       4       4       3       5       1       4       08/1995       Steffee         5       4       5       8       6       3       8       10/1995       Kuslich et al.         5       4       8       9       3       0       7       02/1996       Kuslich et al.         5       4       8       9       3       0       8       02/1996       Kuslich et al.         5       5       7       1       1       0       9       11/1996       Bertagnoli         5       6       0       9       6       3       5       03/1997       Michelson         5       6       0       9       6       3       6       03/1997       Kohrs et al.         5       6       4       5       5       9       8       07/1997       Brosnahan, III         5       6       8       3       4       6       3       11/1997       Godefroy et al.         5       6       6       9       9       0       90/1997       Zd  |   | 5 | 3            | 7            | 0 | 6           | 9            | 7 | 12/1994     | Baumgartner     |              |  |
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| 57    | -  | 2    | 9     | 3     | 4  | 8 | 02/17/82 | Japan   |       |          | U.S. Equivalent<br>U.S. 4,349,921 |
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| 61    | 1  | 2    | 2     | 8     | 5  | 9 | 06/10/86 | Japan   |       |          | U.S. Equivalent<br>U.S. 4,759,766 |
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